

## **Synthesis and properties of phosphobetaine structures: III. Phosphobetaines derived from tertiary phosphines and $\alpha,\beta$ -unsaturated carboxylic acids. Synthesis, structure, and chemical properties**

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### **Abstract**

Methods of synthesis of acylate phosphobetaines by reactions of triphenylphosphine with methacrylic, cinnamic, and p-methoxycinnamic acids are developed. The phosphobetaine form is proposed to exist in equilibrium with the ( $\sigma^5$ -oxaphospholane form. The features of methylation of the phosphobetaines are discussed.

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